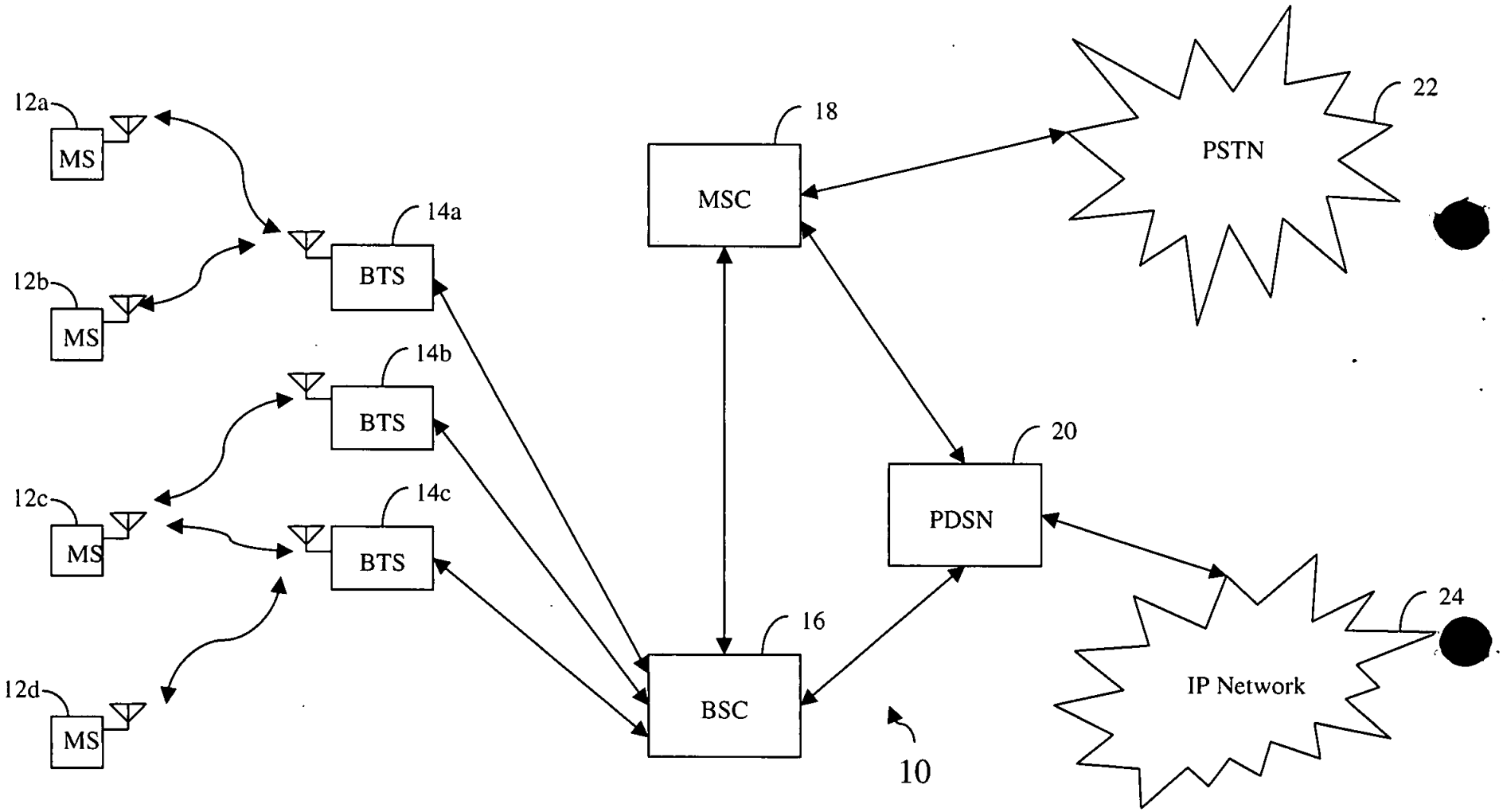

12a
MS
12b
MS
12c
MS
12d
MS
14a
BTS
14b
BTS
14c
BTS
18
MSC
22
PSTN
20
PDSN
16
BSC
24
IP Network
10

FIG. 1

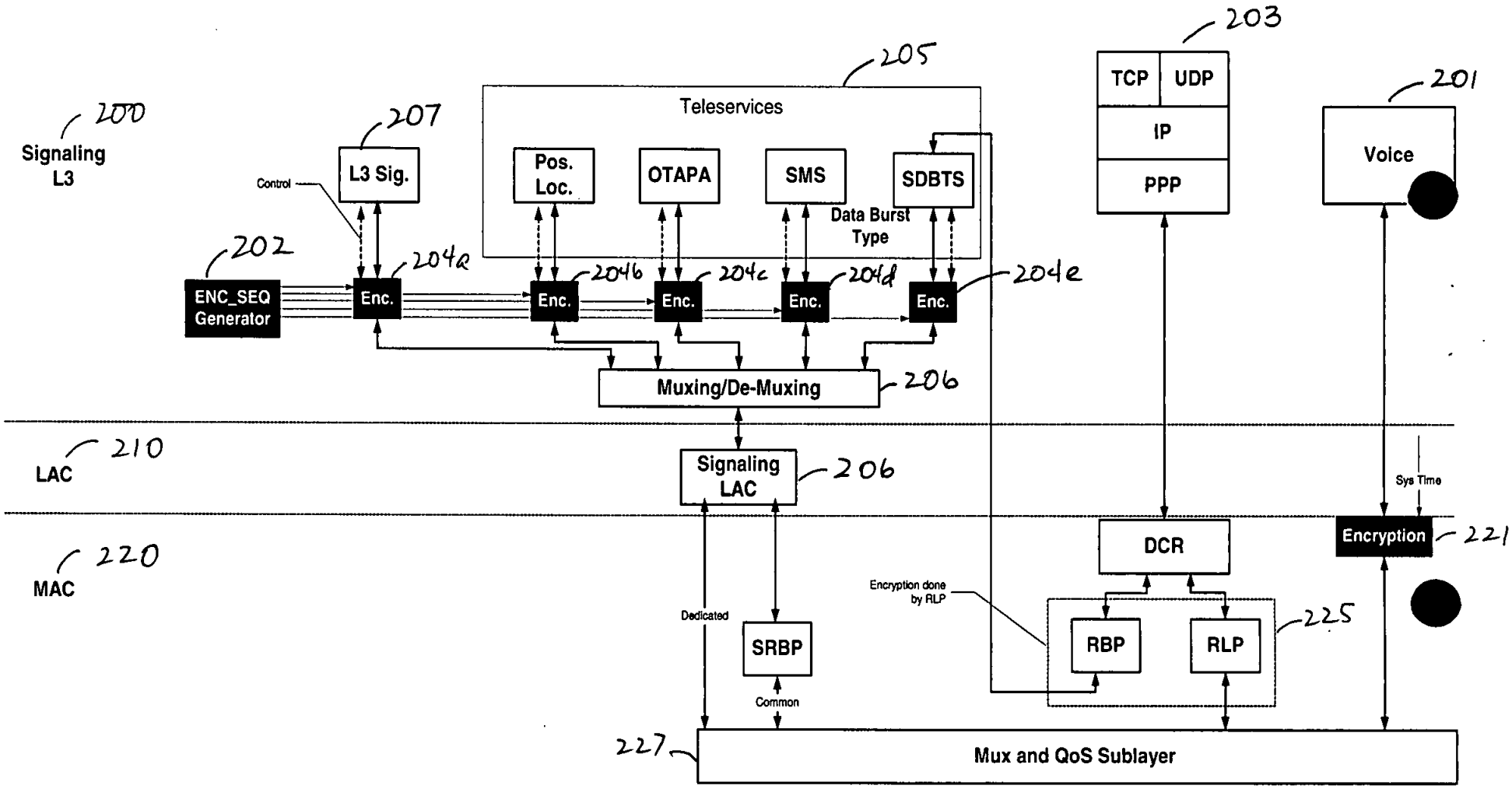
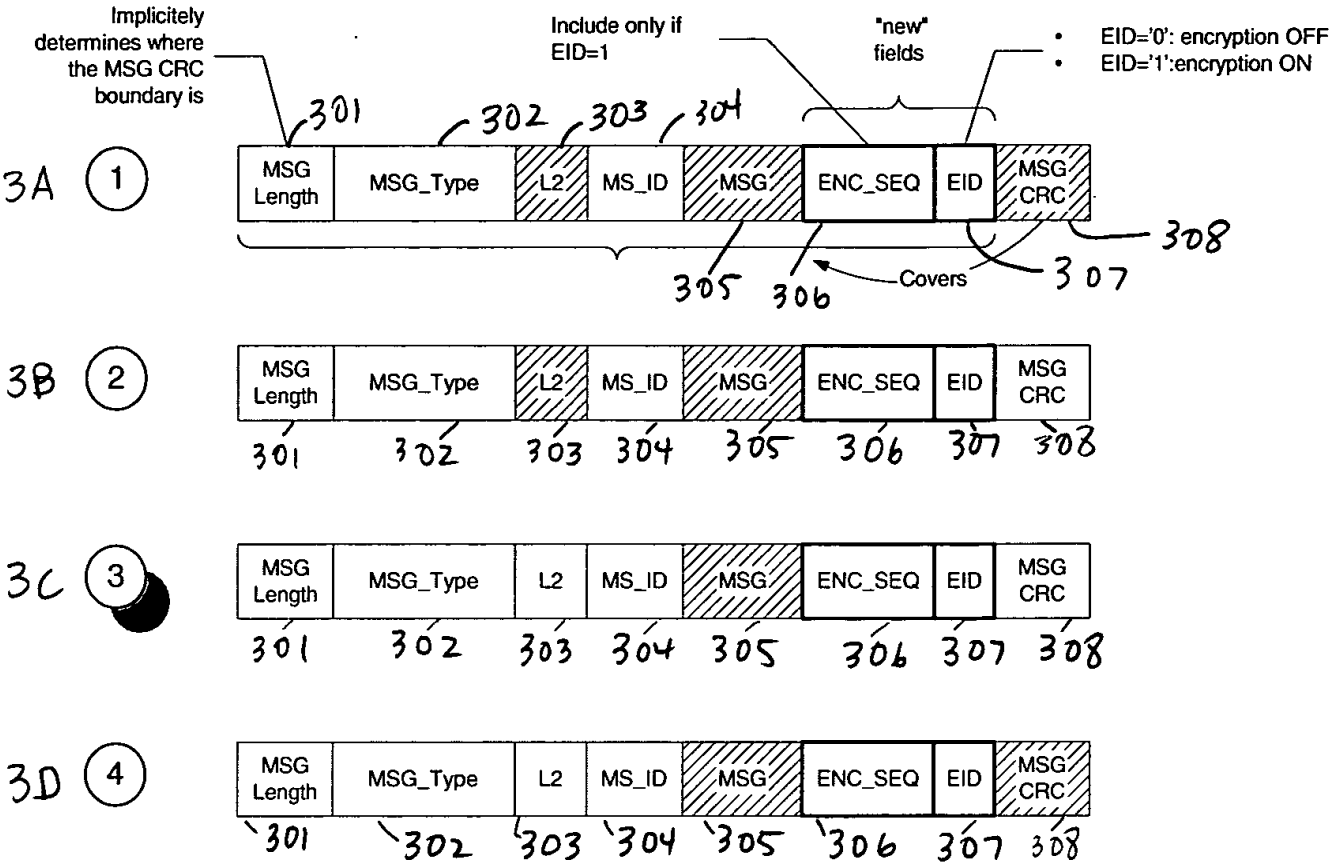

200
Signaling
L3
207
L3 Sig.
Control
205
Teleservices
Pos.
Loc.
OTAPA
SMS
SDBTS
Data Burst
Type
202
ENC_SEQ
Generator
Enc.
204a
204b
204c
204d
204e
Muxing/De-Muxing
206
210
LAC
Signaling
LAC
206
220
MAC
Dedicated
SRBP
Common
203
TCP
UDP
IP
PPP
201
Voice
Sys Time
DCR
Encryption
221
Encryption done
by RLP
RBP
RLP
225
227
Mux and QoS Sublayer

FIG. 2



Note: L2 fields represents all the fields that are added by cdma2000 LAC and are not explicitely shown in this figure as a separate field (e.g., ARQ, Auth., etc.)

FIG. 3

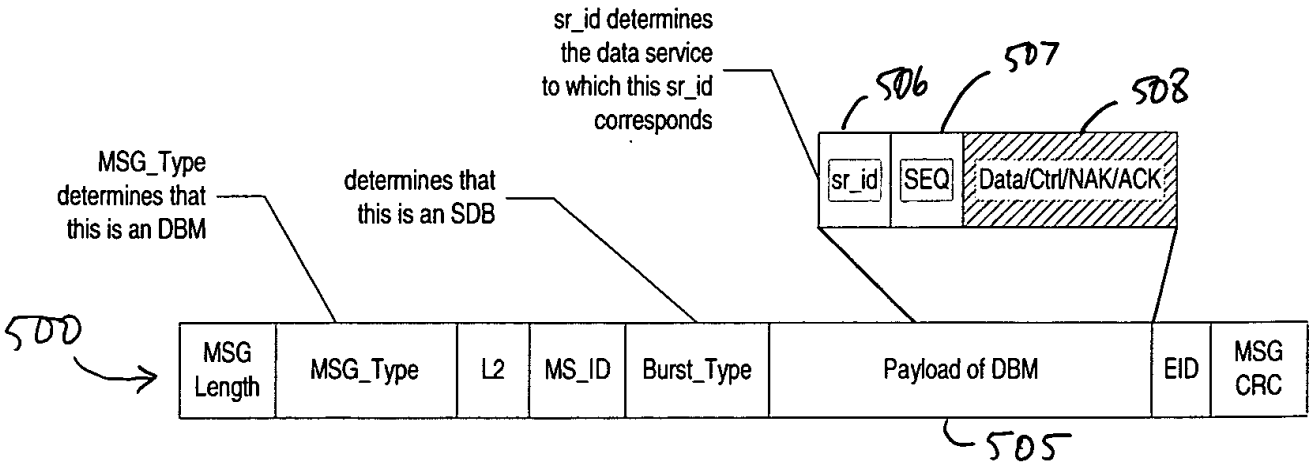


FIG. 5

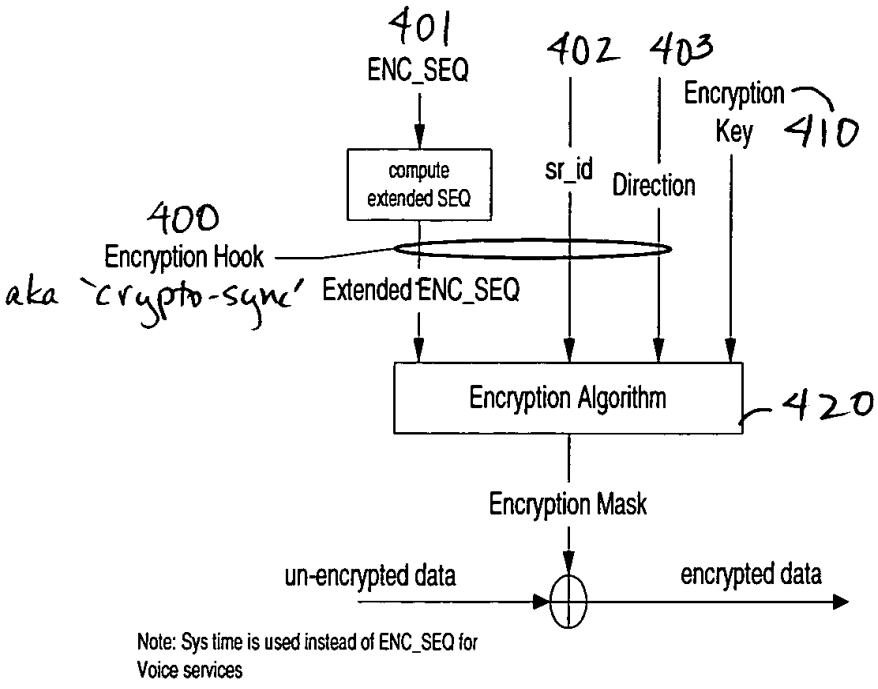


FIG. 4

0095/0950 - 0950800

0086260 - 9600-2960

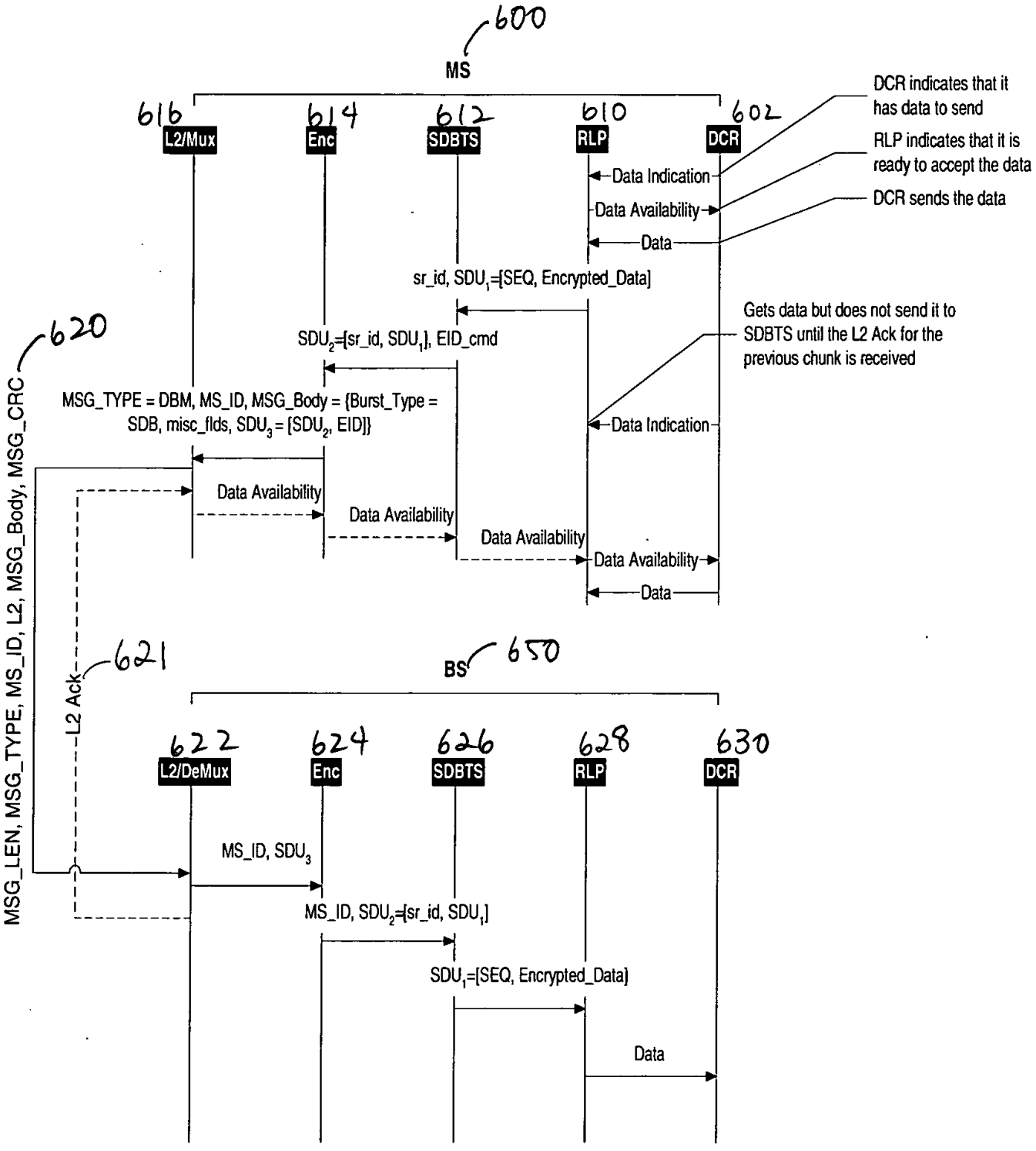


FIG. 6

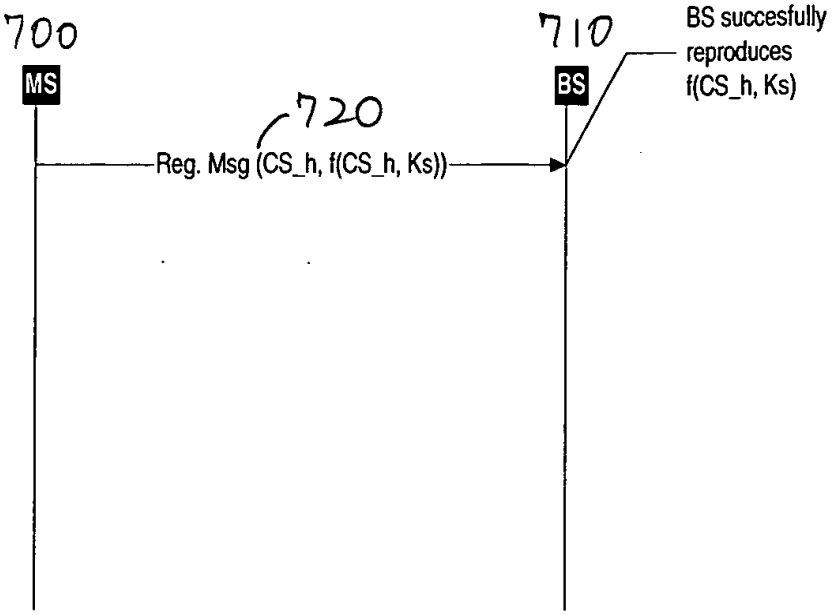

700
MS
710
BS
BS succesfully reproduces f(CS_h, Ks)
720
Reg. Msg (CS_h, f(CS_h, Ks))

FIG. 7

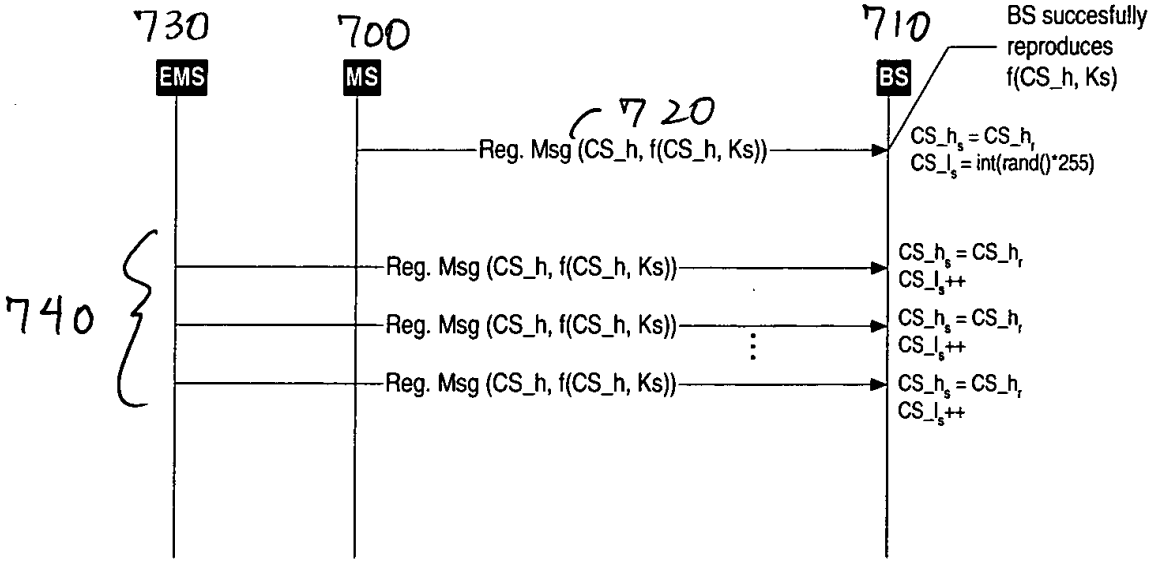

730
EMS
700
MS
710
BS
BS succesfully reproduces f(CS_h, Ks)
720
Reg. Msg (CS_h, f(CS_h, Ks))
CS_h_s = CS_h_r
CS_l_s = int(rand()*255)
740
Reg. Msg (CS_h, f(CS_h, Ks))
CS_h_s = CS_h_r
CS_l_s++
Reg. Msg (CS_h, f(CS_h, Ks))
CS_h_s = CS_h_r
CS_l_s++
Reg. Msg (CS_h, f(CS_h, Ks))
CS_h_s = CS_h_r
CS_l_s++

FIG. 8

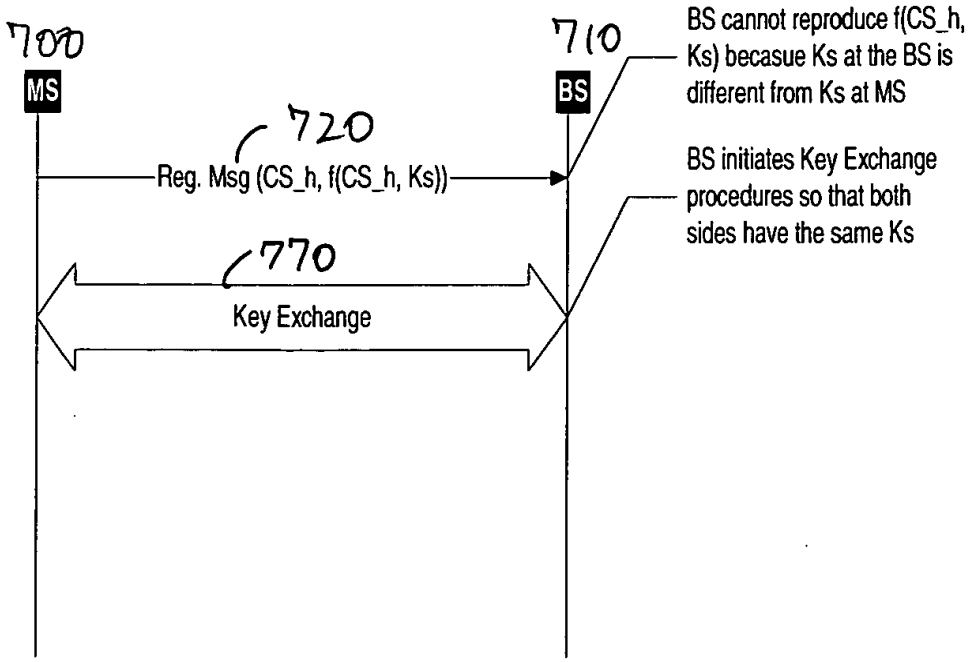
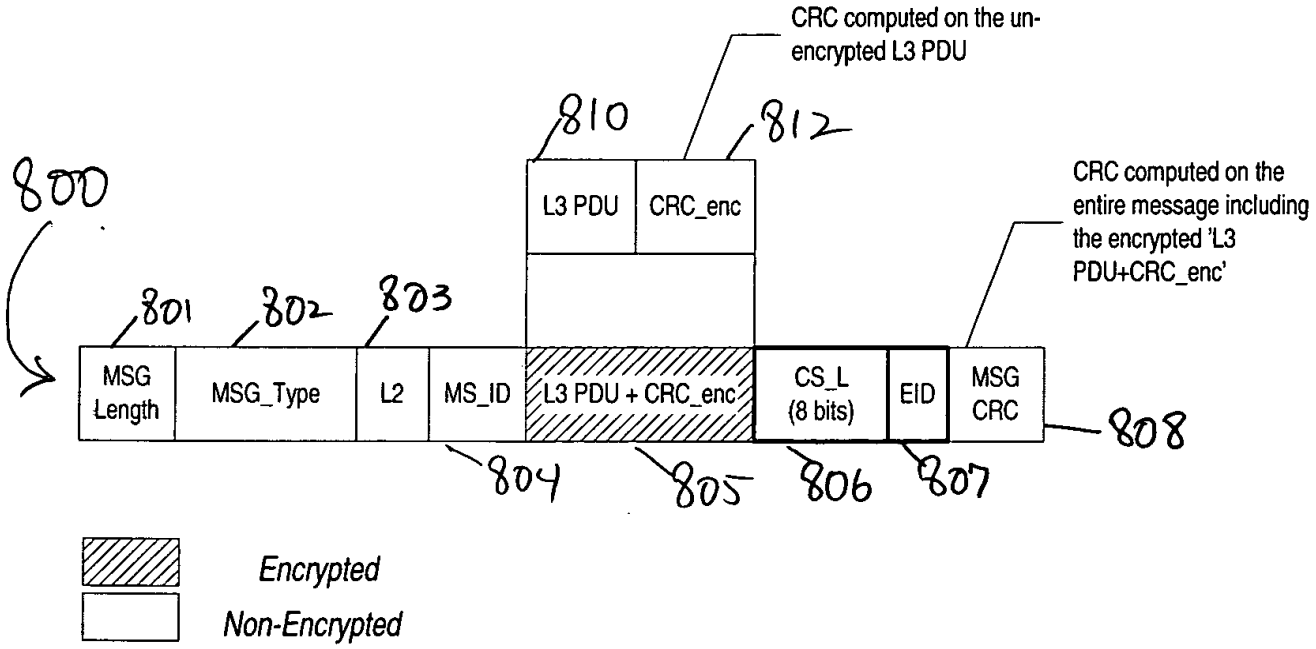


FIG. 9



Note: L2 fields represents all the fields that are added by cdma2000 LAC and are not explicitely shown in this figure as a separate field (e.g., ARQ, Auth., etc.)

FIG. 10

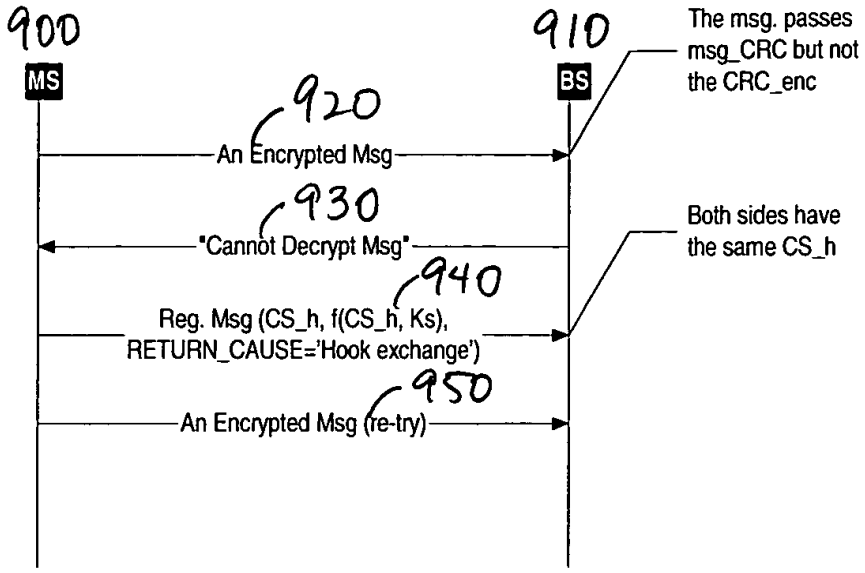


FIG. 11

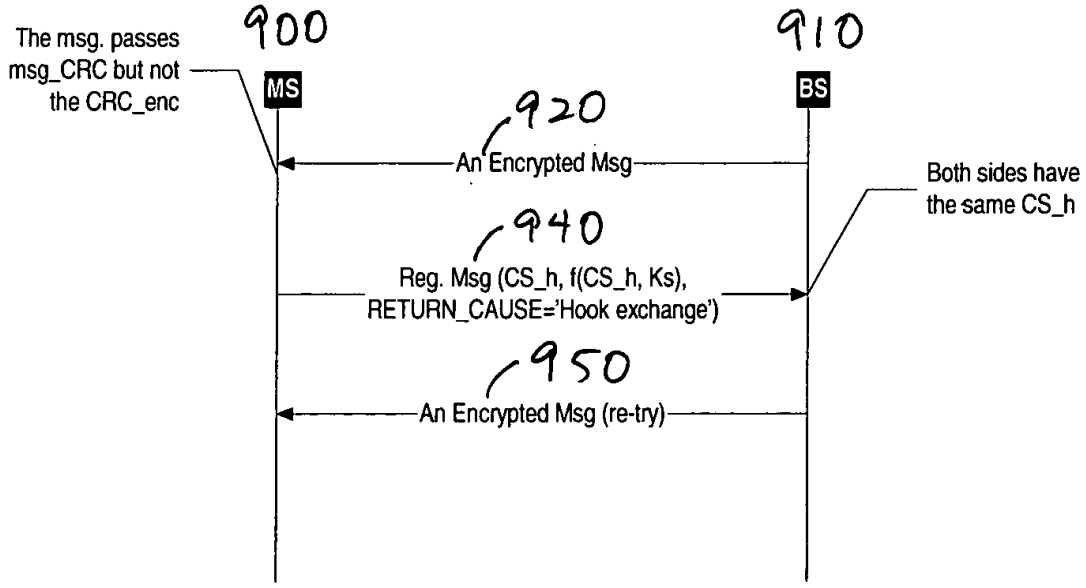


FIG. 12

0050760-0050800